

High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education



Pathway: Agricultural Systems Technology

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																			
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																			
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit -- class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none">> Certificate> Associate degree> Bachelor degree> Professional degree> On-the-job training> Apprenticeship> Military training																																			
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Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biology–Agricultural Science and Tech. or Biological Science 1.00	(1 additional credit -- class of 2011)																																					
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CTE Intro 1.00		1.00	Career and Technical Education	1.00	<div><div>Career and Technical Education Recommended Pathway Courses</div><div>(Students may select individual courses for exploration, or complete pathway for an in-depth focus.)</div><div>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</div><table><thead><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>02.0112</td><td>Biology: Agricultural Science & Technology</td><td>1.00</td></tr><tr><td>01.0211</td><td>Agricultural Systems Technology I</td><td>1.00</td></tr><tr><td>01.0221</td><td>Agricultural Systems Technology II</td><td>1.00</td></tr><tr><td colspan="2">Elective Courses:</td><td></td></tr><tr><td>01.0111</td><td>Agricultural Business Management</td><td>1.00</td></tr><tr><td>01.0241</td><td>Agricultural Machinery Technology</td><td>1.00</td></tr><tr><td>01.0231</td><td>Agricultural Mechanics, Advanced</td><td>1.00</td></tr><tr><td>01.0311</td><td>Agricultural Science & Technology 1</td><td>1.00</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr><tr><td>01.0100</td><td>Summer Agriculture Program</td><td>.25</td></tr><tr><td></td><td>Supervised Agriculture Experience Program (capstone experience)</td><td></td></tr></tbody></table><div>3.00 credits for completion</div></div>					Course #	Foundation Courses: (required)	Credit	02.0112	Biology: Agricultural Science & Technology	1.00	01.0211	Agricultural Systems Technology I	1.00	01.0221	Agricultural Systems Technology II	1.00	Elective Courses:			01.0111	Agricultural Business Management	1.00	01.0241	Agricultural Machinery Technology	1.00	01.0231	Agricultural Mechanics, Advanced	1.00	01.0311	Agricultural Science & Technology 1	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50	01.0100	Summer Agriculture Program	.25		Supervised Agriculture Experience Program (capstone experience)
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<p>Workforce Trends</p> <p>According to the U.S. Department of Labor, the growing interest in worldwide standardization of agricultural equipment should result in increased employment of agricultural engineers. Job opportunities should also result from the increasing demand for agricultural products, the continued efforts for more efficient agricultural production, and the increasing emphasis on the conservation of resources.</p> <p>Get the Facts</p> <p>Students enrolled in high school agricultural courses are looking to join a \$3.5-4.0 billion Utah industry.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>																																										
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<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov</p>																																												

Note: For more information talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Horticulture Science & Management

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																							
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<p>Workforce Trends</p> <p>According to the U.S. Department of Labor, positions in landscape and horticultural services are expected to increase at a fast pace.</p> <p>Get the Facts</p> <p>24 million, or 17% of the American workforce, is employed in the agricultural industry.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>							<p>Additional credits</p>																																							
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Note: For more information talk to your school counselor.

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov

High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Natural Resources Science & Management

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit -- class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elm. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit -- class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biology–Agricultural Science and Tech. or Biological Science 1.00	(1 additional credit -- class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	World Civilizations .50	Geography for Life .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life. 50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00	Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or complete pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL			<p>3.00 credits</p> <p>Additional credits</p> <p>3.00 credits for completion</p>	
<p>Workforce Trends</p> <p>Utah has a wealth of natural resources, which includes five national parks, seven national monuments, seven national forests, two national recreation areas, 45 state parks, and millions of acres of Bureau of Land Management (BLM)-administered deserts and range land. With the multitude of natural resources in Utah there are a vast amount of career opportunities within eight federal and state divisions.</p> <p>Get the Facts</p> <p>There are 600 bison that roam on Antelope Island State Park, the largest island in the Great Salt Lake; the island herd is the second oldest privately held herd in the United States. Today, the bison on the island are among the most sought-after bison in the country.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		Course #	Foundation Courses: (required)	Credit			
				02.0112	Biology: Agricultural Science & Technology	1.00			
				03.0111	Natural Resource Management I	1.00			
				03.0121	Natural Resource Management II	1.00			
				Elective Courses:					
				01.0111	Agricultural Business Management	1.00			
				01.0311	Agricultural Science & Technology 1	1.00			
				01.0351	Aquaculture, Introduction	1.00			
				01.0361	Aquaculture, Advanced	1.00			
				32.0199	Student Internship (Critical Workplace Skills)	.50			
01.0100	Summer Agriculture Program	.25							
	Supervised Agriculture Experience Program (capstone experience)								
					Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.				

Note: For more information talk to your school counselor.

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov

High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Production/Processing Animal Science

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit -- class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elm. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit -- class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biology–Agricultural Science and Tech. or Biological Science 1.00	(1 additional credit -- class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	World Civilizations .50	Geography for Life .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life. 50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00	Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or complete pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				
<p>Workforce Trends Agriculture is the nation's largest employer, with more than 21 million people working in some phase of the industry, from growing food and fiber to selling it in the supermarkets.</p> <p>Get the Facts Agriculture is a vital industry to Utah's economy. There are 15,000 farms in the state, totaling approximately 11.6 million acres, where Utah agriculturists produce crops and livestock worth nearly \$1 billion annually.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		Course #	Foundation Courses: (required)	Credit	3.00 credits		
				02.0112	Biology: Agricultural Science & Technology	1.00			
				02.0211	Animal Science & Technology, Entry	1.00			
				02.0241	Animal Science & Technology, Advanced	1.00			
					Elective Courses:		Additional credits		
				01.0111	Agricultural Business Management	1.00			
				01.0311	Agricultural Science & Technology 1	1.00			
				01.0351	Aquaculture, Introduction	1.00			
				01.0361	Aquaculture, Advanced	1.00			
				02.0251	Dairy Herd Management	1.00			
				02.0221	Equine Science & Technology	1.50			
				02.0261	Swine Herd Management	1.00			
				02.0231	Veterinary Assistant	1.00			
				32.0199	Student Internship (Critical Workplace Skills)	.50			
				01.0100	Summer Agriculture Program	.25			
	Supervised Agriculture Experience Program (capstone experience)		3.00 credits for completion						
Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.									

Sample Occupations

- > Animal Geneticist
- > Animal Nutritionist
- > Animal Scientist
- > Animal Technician
- > Aquaculturalist
- > Feed Sales Rep.
- > Herdsman
- > Livestock Inspector
- > Veterinarian
- > Veterinary Tech.

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov

Note: For more information talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Production/Processing Plant & Soil Science

Middle School		State Requirements			High School Suggested Education Plan				College & Careers	
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School	
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Pre-Algebra 1.00	Elm. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit -- class of 2011)			
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CTE Intro 1.00		1.00	Career and Technical Education	1.00	Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or complete pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				Sample Occupations > Agronomist > Agronomy Department Manager > Agronomy Production Specialist > Agronomy Tech. Specialist > Plant Pathologist > Seed Sales Manager	
Workforce Trends Agronomy is a specialized field where many agronomists are independent consultants. Get the Facts About 17% of all U.S. agricultural products are exported yearly, including 99 million tons of grains and feed and 2 million tons of fresh vegetables. Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.		Course #	Foundation Courses: (required)	Credit	3.00 credits					
		02.0112	Biology: Agricultural Science & Technology	1.00						
		02.0411	Plant and Soil Science & Technology, Entry	1.00						
				02.0421	Plant and Soil Science & Technology, Adv.	1.00	Additional credits			
		Elective Courses:								
		01.0111	Agricultural Business Management	1.00						
		01.0311	Agricultural Science & Technology 1	1.00						
		32.0199	Student Internship (Critical Workplace Skills)	.50						
		01.0100	Summer Agriculture Program	.25						
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Beyond High School

There are a number of options for education and training beyond high school, depending on your career goals.

- > Certificate
- > Associate degree
- > Bachelor degree
- > Professional degree
- > On-the-job training
- > Apprenticeship
- > Military training

Sample Occupations

- > Agronomist
- > Agronomy Department Manager
- > Agronomy Production Specialist
- > Agronomy Tech. Specialist
- > Plant Pathologist
- > Seed Sales Manager

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High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Production/Processing Science & Management

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			Computer Tech.	.50	Computer Technology .50					
CTE Intro 1.00		1.00	Career and Technical Education	1.00						
Workforce Trends According to the Utah Farm Bureau Federation, more than 100,000 people are employed by agriculture and agribusiness in the state of Utah.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor.			Career and Technical Education Recommended Pathway Courses				<p>3.00 credits</p> <p>Additional credits</p> <p>3.00 credits for completion</p>	
Get the Facts Farmers and ranchers provide food and habitat for 75% of the nation's wildlife. One-fourth of the world's grain, milk, and eggs are produced in the United States.					(Students may select individual courses for exploration, or complete pathway for an in-depth focus.)					
		CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL								
		Course #		Foundation Courses: (required)		Credit				
				Choose three of the following courses:						
		02.0112		Biology: Agricultural Science & Technology		1.00				
		01.0311		Agricultural Science & Technology I		1.00				
		01.0321		Agricultural Science & Technology II		1.00				
		01.0331		Agricultural Science & Technology III		1.00				
				Elective Courses:						
		01.0111		Agricultural Business Management		1.00				
		02.0211		Animal Science & Technology, Entry		1.00				
		02.0241		Animal Science & Technology, Advanced		1.00				
		01.0351		Aquaculture, Introduction		1.00				
		01.0361		Aquaculture, Advanced		1.00				
		02.0251		Dairy Herd Management		1.00				
		02.0221		Equine Science & Technology		1.00				
		02.0411		Plant and Soil Science & Technology, Entry		1.00				
		02.0421		Plant and Soil Science & Technology, Adv.		1.00				
		02.0261		Swine Herd Management		1.00				
		02.0231		Veterinary Assistant		1.00				
		32.0199		Student Internship (Critical Workplace Skills)		.50				
		01.0100		Summer Agriculture Program		.25				
				Supervised Agriculture Experience Program (capstone experience)						

Note: For more information talk to your school counselor.